THIS OPINION WAS NOT WRITTEN FOR PUBLICATION

The opinion in support of the decision being entered today (1) was not written for publication in a law journal and (2) is not binding precedent of the Board.

Paper No. 18

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte MIYO MIYASHITA

Appeal No. 95-4545 Application No. $08/094220^{1}$

ON BRIEF

Before THOMAS, SMITH, and CARMIICHAEL, Administrative Patent Judges.

CARMICHAEL, Administrative Patent Judge.

DECISION ON APPEAL

This is an appeal from the final rejection of claims 1-4, which constitute all the claims remaining in the application.

Claim 1 reads as follow:

1. A level shift circuit which drops an output voltage of a prior stage circuit to an input voltage level required at a next stage circuit comprising:

¹ Application for patent filed July 21, 1993.

a level shift diode having an anode and a cathode;

a source follower enhancement-type field effect transistor having a gate connected as an input terminal of the circuit, a drain connected to a positive power supply, and a source connected to the anode of the level shift diode;

a constant current source having first and second terminals;

a current adjusting enhancement-type field effect transistor having a drain connected to the cathode of the level shift diode as an output terminal of the circuit and to the first terminal of the constant current source, a gate connected to the second terminal of the constant current source, and a source connected to a negative terminal of a power supply; and

a resistor connected between the source and the gate of the current adjusting enhancement-type field effect transistor whereby a gate-to-source voltage of the current adjusting enhancement-type field effect transistor controlled by a current flowing through the resistor to enhancement-type field effect transistor.

The examiner's Answer cites the following prior art:

	Sharp	4,584,492	Apr.	22,	1986
	Shinohara et al. (Shinohara)	4,645,998		Feb.	24,
1987					
	MacMillan et al. (MacMillan)	4,926,071		May	15,
1990					
	Nagasawa	5,177,378	Jan.	5,	1993
	Seshita et al. (Seshita)	5,225,718	Jul.	6,	
1993					

OPINION

Claims 1 and 2 stand rejected under 35 U.S.C. § 103 as being unpatentable over Nagasawa in view of Shinohara. Claim 3 stands rejected under 35 U.S.C. § 103 as being unpatentable over Nagasawa in view of Shinohara and Seshita. Claim 4 stands

rejected under 35 U.S.C. § 103 as being unpatentable over Nagasawa in view of Sharp and McaMillian.

Claim 1

The examiner finds that Nagasawa discloses the claimed invention except that Nagasawa's pull down circuit 61 is different. The recited pull down circuit comprises a constant current source, a current adjusting enhancement-type field effect transistor, and a resistor connected in a certain way. The examiner finds that the recited pull down circuit is disclosed by Shinohara. Appellant does not take issue with those findings. In any event, we agree with those findings and adopt them as our own.

According to the examiner, Shinohara suggested replacing Nagasawa's pull down circuit 61 with Shinohara's pull down circuit so that Nagasawa would have a pull down circuit impervious to fluctuations in power supply. We agree with the

examiner. Shinohara does indeed make such a suggestion to one of ordinary skill in the art. Column 3, lines 39-49.

Appellant argues that such a combination would not achieve his result, of providing a level shift that is immune to variations in the threshold values and/or gain coefficients in the FET's that comprises that circuit. However, such a result is

not recited. Claims undergoing examination are given their broadest reasonable interpretation consistent with the specification, and limitations appearing in the specification are not to be read into the claims. *In re Etter*, 756 F.2d 852, 858, 225 USPQ 1, 5 (Fed. Cir. 1985) (in banc). Appellant's argument is not commensurate in scope with his claims and is not persuasive.

Moreover, as long as some motivation or suggestion to combine the references is provided by the prior art taken as a whole, the law does not require that the references be combined for the reasons contemplated by the inventor. *In re Beattie*, 974 F.2d 1309, 1312, 24 USPQ2d 1040, 1042 (Fed. Cir.

1992); In re Kronig, 539 F.2d 1300, 1304, 190 USPQ 425 427-28 (CCPA 1976);

In re Lintner, 458 F.2d 1013, 1016, 173 USPQ 560, 562 (CCPA 1972). Therefore, the fact that the prior art suggested replacing Nagasawa's pull down circuit 61 with Shinohara's pull down circuit for a reason different than disclosed by appellant, does not change the fact that the prior art suggested a level shift circuit within the scope of Claim 1.

The rejection will be sustained.

Claims 2 and 3

Claims 2 and 3 stand or fall together with claim 1 because appellants have presented no arguments for the separate patentability of Claim 1-3 under 37 CFR § 1.192.

Because we sustain the rejection of Claim 1, we also sustain the rejections of claim 2 and 3.

Claim 4

The examiner's rejection of Claim 4 proposes to replace Sharp's resistor 11 with an FET shown in MacMillan's Figure 14, and use the modified Sharp device as Nagasawa's bias voltage Vb. The examiner relies on "designs choice" for modifying Sharp. Examiner's Answer at 6.

Appellants argues:

"In making the rejection, the Examiner is essentially substituting the transistor of one reference for a resistor in another reference to build the present invention because the present invention utilizes a transistor in its constant current source and not a resistor. Impetus for this substitution is not provided by the references themselve nor by knowledge in the art. Thus, prima racie obviousness has not been established and, accordingly, the rejection of claim 4 is erroneous and should be reversed".

Appeal Brief at page 11, line 26, through page 12, line 8.

We agree with appellant. The mere fact that the prior art may be modified in the manner suggested by the examiner does not make the modification obvious unless the prior art suggested the

desirability of the modification. *In re Fritch*, 972 F.2d 1260, 1266 n.14, 23 USPQ2d 1780, 1783-84 n.14 (Fed. Cir. 1992). In the present case, the examiner has identified no

prior art suggestion that it would be desirable to modify Sharp as proposed in the rejection.

Because the examiner has not established a <u>prima facie</u> case of obviousness, we will not sustain the rejection of Claim 4.

CONCLUSION

The rejections of Claim 1-3 are sustained. The rejection of claim 4 is not sustained.

No period for taking any subsequent action in connection with this appeal may be extended under 37 CFR \S 1.136(a).

AFFIRED IN PART

JAMES D. THOMAS)
Administrative Patent	Judge)
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) BOARD OF PATENT
JERRY SMITH) APPEALS
Administrative Patent	Judge) AND
) INTERFERENCES
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JAMES T. CARMIICHAEL)
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